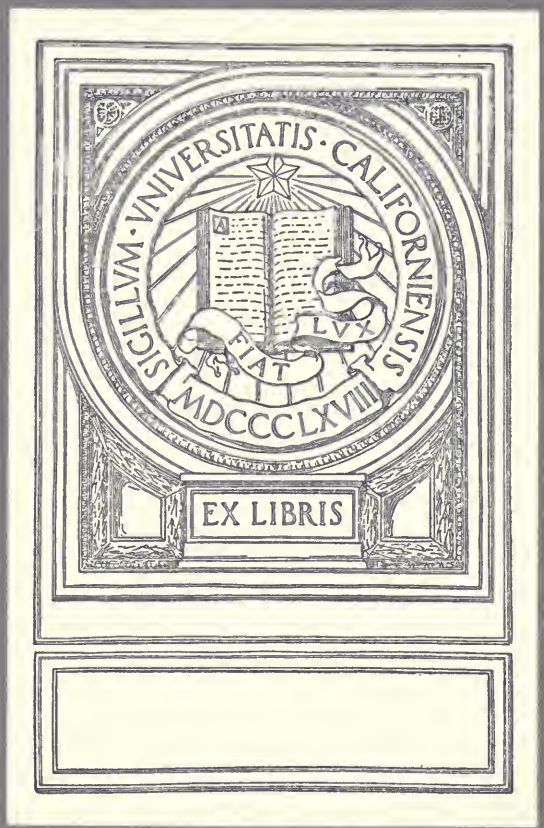
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No. 32.

MATHEMATICAL THESES OF JUNIOR AND SENIOR CLASSES, 1782-1839.

By HENRY C. BADGER.

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THE MATHEMATICAL THESES

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*** Many of these papers are interesting memorials of men since become in different degrees famous. Some are o present antiquarian interest, as giving plans and views under conditions which have now disappeared. The names of the authors are given in CAPITALS.

Explanatory statements are enclosed in brackets, the titles being copied from the papers themselves. These all bear the Portfolio mark H. U. 105.26, and are individually numbered as follows:—

1. Projection of a Solar Eclipse, April 12, 1782, for the Meridian of Cambridge, Lat. 42° 25′ N.; Long. 4h 44′ W. — RICHARD CODMAN [H. C. 1782].

2. The Projection of a Lunar Eclipse for September 10th, 1783, calculated for the Meridian of Boston, New England. — BARNABAS HEDGE, Jun. [H. C. 1783].

Felix qui potuit rerum cognoscere causas. — *Virg.*

3. Delineation of the Phaenomena at the time of the Conjunction of Jupiter and Saturn, 1782. Cambridge, Long. 4h 44′ 22″ W. — W. KING [Class of 1783].

4. The Transit of Mercury over the Sun, Nov. the 12th, 1782, delineated for the Meridian of Cambridge, N. E., Long. 4h 44′ W. from Greenwich. — W. KING [Class of 1783].

5. A Projection of a Lunar Eclipse calculated for the Meridian of Cambridge, N. Lat. 42° 25′; W. Long. 70°. — TOBIAS LEAR [H. C. 1783]. April 9, 1783.

6. The Projection of the Lunar Eclipse for Sept. 10, 1783, calculated for the Meridian of Boston, N. England. — HARRISON GRAY OTIS, April, 1783 [H. C. 1783].

Felix qui potuit rerum cognoscere causas:
. . . Quâ causâ, argentea Phoebe
Passibus haud aequis graditur, cur subdita nulli
Hactenus Astinomo, numerorum focna recusat
Cur remeant Nodi, cur qu' Auges progrediuntur.
. . . Quantis refluum, saga Cynthia pontum
Viribus impellit, dum fractis fluctibus ulvam
Deserit, ac nautis suspectas nudat arenas,
Alternis vicibus suprema ad littora pulsans. — *Virg.*

7. Projection of a Lunar Eclipse, September the 10th, 1783, calculated for the Meridian of Boston, Long. West from Greenwich 4h 44′. — WILLIAM PRESCOTT [H. C. 1783].

8. An Accurate Survey of Cambridge Common containing 20 acres, 0 R. 3 P. D[ecimal] 55460, taken by E. H. WILLIAMS [H. C. 1783]. Sept. 1782. [Plan, 19½ × 26¾ in. Colored.]

9. The Stereographic Projection of the Sphere on the Plane of the Horizon of Cambridge, Lat. 42° 23′ 30″. — CHARLES COFFIN [H. C. 1785].

10. Mathematical Problems and their Solutions. [Four Problems.] — THOMAS CHANDLER [H. C. 1787].

11. A Geometrical Projection of a Solar Eclipse, Aug. 15, 1836. — CALEB CHILD [H. C. 1787]. June ye 15th, 1787.

12. Projection of a Solar Eclipse, April ye 23rd, 1781. — OLIVER FISKE [H. C. 1787].

13. Geometry and Surveying. [Three Problems.] — NATHANAEL LAURENCE [H. C. 1787].

14. Algebraic Problems [two] with Surveying by Gunter's Chain a Plot of ground formerly the property of the late Dr. Appleton [3 acres], and Surveying by the Mic Needle a Plan of the Play Yard [1 acre]. — EBEN LEARNED [H. C. 1787]. Nov. 23, 1786.

15. An Eclipse of ye Moon, Jan. ye 3rd, 1787. — MOSES LITTLE [H. C. 1787].

16. Mathematical Problems and their Solutions. [Four Problems.] — DANIEL MAYO [H. C. 1787]. Dec. 17, 1787.

17. A Plot of the Common [in Cambridge]. Contents, 16 A. 3 R. 2 P. [Plan, 7 × 10½ in.] — HEZEKIAH PACKARD [H. C. 1787].

18. Mathematical Problems and their Solutions. [Three Problems.] — NATHANIEL S. PRENTISS [H. C. 1787].

19. Some Problems in Conic Sections. — Samuel Willard [H. C. 1787]. Nov. 29, 1786.

20. Algebraic Problems [four]. — Samuel Willard [H. C. 1787].

21. The Projection of a Lunar Eclipse for April, 1798, calculated for the Meridian of Boston. — John D. Dunbar [H. C. 1789].

22. Solar Eclipse for the year of our Lord, 1797, calculated for the Meridian of Greenwich. — Benjamin Haskell [H. C. 1789].

23. Projection of a Solar Eclipse for April y^e^ 3rd, A.D. 1791. — Levi Lincoln [H. C. 1789].

24. Projection of a Solar Eclipse, calculated for Boston Meridian, Sept. 5th, A.D. 1793. — Bezer Snell [H. C. 1789].

25. Algebraic Problem. — Bezer Snell [H. C. 1789]. June 8th, 1789.

26. Projection of a Solar Eclipse for April 3rd, 1791, calculated for the Meridian of Cambridge. — Nathaniel Thayer [H. C. 1789].

27. A Projection of a Lunar Eclipse for the year 1790, calculated for the Meridian of Boston. — James Wilson [H. C. 1789]. June 5th, 1789.

28. Solutions of Algebraic Problems. — Pitt Clarke [H. C. 1790]. Sept. 1789.

29. The Projection of a Solar Eclipse for April y^e^ 3rd, A.D. 1791. — Jonathan Grout [H. C. 1790]. Sept. 1789.

30. A Lunar Eclipse projected for Feb. 14, 1794. Same sheet, A Map of the World, — hemispheres. — Benjamin Hasey [H. C. 1790].

31. Projection of a Lunar Eclipse, Oct. 11, 1791. — Peter Holt [H. C. 1790].

32. Solar Eclipse for April 3rd, 1791. Same sheet, A Stereographic Projection of the Occidental and Oriental Hemispheres, projected on the plane of the Meridian. — Daniel Staniford [H. C. 1790].

33. Projection of the Solar Eclipse for June y^e^ 15th, A.D. 1806. — Micah Stone [H. C. 1790]. June 15, 1790.

34. A Lunar Eclipse for Oct. 22, 1790. — Thomas Rice [H. C. 1791].

35. The Calculation and Projection of a Lunar Eclipse, Feb. 1793. — Abiel Abbot [H. C. 1792]. Sept. 27, 1791.

36. Orthographical Projection of Hollis Hall, etc. — Front View, End View, and Perspective View, with part of Holden Chapel and buildings East of Hollis Hall. [In Colors.] — Jonathan Fisher [H. C. 1792]. Sept. 27, 1791.

37. The Geometrical Construction of a Solar Eclipse, Sept. 6, 1820. — George Gardner Lee [H. C. 1792].

38. Solution of Algebraic Problems. — William Mason [H. C. 1792].

39. A Transit of Mercury over the Sun's disk, as it will be seen at Cambridge, May 7th, 1799. — Willard Peele [H. C. 1792].

40. A Calculation and Projection of a Solar Eclipse on the 5th of Sept., 1793. — John S. Popkin [H. C. 1792].

41. A Calculation and Projection of a Transit of Venus over the Sun, Dec. 9th, 1774. — Stephen P. Webster [H. C. 1792].

42. The Geometrical Conjunction of a Solar Eclipse [in 1792]. — [No name.]

43. Projection of a Solar Eclipse which will happen, Sept. 5, 1793. — [No name.]

44. Calculation and Geometrical Construction of a Solar Eclipse [Sept. 5, 1793]. — Samuel Brown [H. C. 1793].

45. Algebraical Problems. — Caleb Ellis [H. C. 1793].

46. A Perspective View of the Episcopal Church in Cambridge. [In colors.] — Samuel Farrar [H. C. 1793].

47. A Calculation and Projection of a Lunar Eclipse in February, 1794. — Joshua Frost [H. C. 1793].

48. Problems in Algebra. — Francis Cabot Lowell [H. C. 1793]. Oct. 30, 1792.

49. Algebraic Solutions of Problems. — Charles H. Atherton [H. C. 1794].

50. Caculation and Projection of an Eclipse of the Sun, to happen August 25th, 1794. — Elijah Dunbar [H. C. 1794].

51. Plan of a piece of Land lying in Cambridge, situated about half a mile East of the Colleges, &c. [11 Acres, 3 Roods, 10 Perches]. [In colors.] Surveyed by James B. Howe [H. C. 1794]. Sept. 24, 1793.

52. A Transit of Mercury over the Sun's disk, as will be seen from Cambridge, May 7th, 1799. — David Kendall [H. C. 1794].

53. An Eclipse of the Sun, April 13, A.D. 1809. — Joseph Perkins [H. C. 1794].

54. The Calculation and Projection of a Lunar Eclipse, May, 1798. — Seth Bemis [H. C. 1795]. Sept. 30th, 1794.

55. Solutions of Algebraic Problems. — Oliver Crosby [H. C. 1795]. April 14, 1795.

56. Stereographic Projection of the Sphere on the Plane of the Meridian. — Samuel Adams Dorr [H. C. 1795].

57. Calculation and Projection of a Solar Eclipse for the Meridian of Cambridge, April, 1809. — John Phillips [H. C. 1795]. April 15, 1795.

58. Algebraic Solutions. — Daniel Weston [H. C. 1795]. Sept. 29th, 1794.

59. Calculation and Projection of a Solar Eclipse, July, 1795. — Daniel Woods [H. C. 1795]. Sept. 30, 1794.

60. A North East View of the House of Samuel Webber, A.A.S., and of the Court House in Cambridge, by an actual Survey. — William Boyd [H. C. 1796].

61. Calculation and Projection of a Solar Eclipse, February 21st, 1803. — Charles Davis [H. C. 1796]. Sept. 1795.

62. Algebraical Solutions of Problems. — James Jackson [H. C. 1796]. Sept. 1795.

63. Algebraic Solution of Problems. — Thomas Mason [H. C. 1796]. Sept. 29, 1795.

64. *Problematum Solutiones Fluxionarie.* [In Latin.] — John Pickering [H. C. 1796].

65. Astronomical Calculations. — Peter O. Thacher [H. C. 1796]. Sept. 1795.

66. *Delineationes Perspectivae* [with an End View of Massachusetts Hall]. [In colors.] — Samuel Welles [H. C. 1796].

67. Algebraic Problems. — Joseph Story [H. C. 1798]. April, 1798.

68. Calculation and Projection of a Solar Eclipse for April 3, 1791. — John Harris [H. C. 1799].

69. Analemma. — John Harris [H. C. 1799].

70. The Calculations and Projection of a Solar Eclipse, August 28, 1802. — Walter Hastings [H. C. 1799].

71. Calculation and Projection of a Lunar Eclipse for the Meridian of Cambridge, N. E., Nov. 23, 1798. — Charles Macomber [H. C. 1799].

72. A Survey of Cambridge Common, and Mensuration of the Height of Holden Chapel. [The whole Contents, 16 Acres, 0 R. 21.7328 Perches.] — Samuel D. Parker [H. C. 1799]. Sept. 25, 1798.

73. Astronomical Calculations. — Timothy Pickering [H. C. 1799].

74. Algebraical Solutions of Problems. — Luther Richardson [H. C. 1799].

75. *Occultationis Calculus ☉ Virginis pro Cantabrigia anno Domini 1799, die Aprilis 18.* [In Latin.] — [Name lost.]

76. A Description of the Corn Mill on Concord River belonging to the Proprietors of [the] Middlesex Canal, with a Calculation of its powers and velocities. — Loammi Baldwin, Jun. [H. C. 1800].

77. Surveying, and Mensuration of Heights. [With Survey of part of Cambridge Common and determination of heights of the Church Steeple and of Harvard Hall.] — Joshua Bates [H. C. 1800].

78. A Calculation of an Eclipse of the Second Satellite of Jupiter on the 2nd of April, 1800, and of the place of the Sun and Planet as seen at that time from the Meridian of Cambridge. — Timothy Boutell [H. C. 1800].

79. Calculation and Projection of an Eclipse of the Moon for March, A.D. 1801. — B. Marston Watson [H. C. 1800]. Sept. 23, 1799.

80. Calculation and Projection of a Solar Eclipse in June, 1806, adapted to the Meridian of the University in Cambridge, U. S. A. — Tyler Bigelow [H. C. 1801].

81. A Calculation and View of the Emersion of the Second Satellite of Jupiter, on the Vth of May, MDCCCI. — Thomas Bond [H. C. 1801]. April 14, 1801.

82. A North-Easterly Perspective View of Cambridge Court House. [In colors.] — Robert Hallowell [Gardiner] [H. C. 1801].

83. A Survey of the Tract of Land, situated southwesterly of the Colleges, on which the Church stands. — Moody Kent [H. C. 1801]. Sept. 29, 1800.

84. Projection and Calculations. Stereographic Projection on the plane of the horizon of Cambridge, N. Lat. 42° 23′ 28″; E. Long. 71° 6′ 46″. — Luther Laurence [H. C. 1801].

85. Algebraical Solution of Problems. — Charles Chauncey Parsons [H. C. 1801]. Sept. 30, 1800.

86. Solutions of Algebraic Problems. — Benjamin Peirce [H. C. 1801]. April 14, 1801.

87. Calculation and Projection of a Solar Eclipse (June, 1806). — Levi Frisbie, Jun. [H. C. 1802].

88. A Northeastwardly View of the College House taken at a small distance by the eye. [In colors.] — Charles W. Greene [H. C. 1802]. Sept. 29, 1801.

89. A Stereographic Projection of the Sphere, and Astronomical Calculations. — Samuel Hoar [H. C. 1802].

90. Algebraic Solutions of Problems. — Asa Mitchell [H. C. 1802]. Aug. 25, 1802.

91. Algebraic Solutions of Problems. — Thomas Rothmahler Mitchell [H. C. 1802].

92. Projection and Astronomical Calculations. — Timothy Newell, Jun. [H. C. 1802].

93. Calculation and Projection of a Lunar Eclipse in September, 1801, for the Meridian of Cambridge. — Ichabod Nichols [H. C. 1802]. Sept. 28, 1801.

94. Calculation and Projection of a Solar Eclipse. — John Randall [H. C. 1802]. Nov. 1807.

95. Problems in Spherical Astronomy. — Ebenezer Rockwood [H. C. 1802]. April 27, 1802.

96. The Survey of a Tract of Land [83 acres] in Cambridge, and a Perspective Delineation of the summer house thereon. — Charles Saunders [H. C. 1802].

97. A Perspective View of Massachusetts Hall. — Alexander Townsend [H. C. 1802]. July, 1802.

98. Algebraic Solutions of Problems in Mathematics and in Physics. — [Name lost. 1802?]

99. Algebraic Solutions of Problems. — Benjamin Ames [H. C. 1803].

100. Calculation and Projection of a Solar Eclipse for Lat. 39° 54′ S.; Long. 116° 30′ E., Jan. 21st, 1814. — John Farrar [H. C. 1803]. April, 1803.

101. Perspective View of the House of Mr. Fayerweather in Cambridge. [Two Views.] — Benjamin Hodges [H. C. 1803]. April 26, 1803.

102. Projection of the Sphere on the Plane of the Horizon. Cambridge, Lat. 42° 23′ 28″ N.; Long. 71° 7′ 45″ W. from Greenwich. — David T. Kimball [H. C. 1803]. April 26, 1803.

103. Fluxionary Solutions. — Nathan Parker [H. C. 1803]. Aug. 31, 1803.

104. Examples in Mensuration of Heights and Distances. [With Views of the Episcopal Church, of Massachusetts Hall, of the Church Steeple in Cambridge, and of "Mr. Sparhawk's house beyond Charles River taken from two stations near the Bath."] [In colors.] — James Savage [H. C. 1803].

105. Calculation and Projection of a Solar Eclipse for the Meridian of Cambridge, Lat. 42° 23′ 28″ N.; Long. 71° 6′ 5″ W. of Greenwich, for June 26, 1805. — William B. Sewall [H. C. 1803].

106. Solutions of General Problems in Spherical Astronomy. — William B. Sewall [H. C. 1803].

107. Survey of a Tract of Land in Medford, lying a few rods north of Mystick River, east of the market and south of a road leading to Salem. [In colors.] — Daniel Swan [H. C. 1803].

108. Calculation and Projection of a Solar Eclipse for the Meridian of Cambridge, Lat. 42° 23′ 28″; Long. 71° 6′ 45″ W. of Greenwich. Apparent time, June 26th, 1805. — Daniel Swan [H. C. 1803].

109. Fluxionary Solutions. — Samuel Willard [H. C. 1803]. April 26, 1803.

110. Algebra. — Oliver Brown [H. C. 1804]. April 24, 1804.

111. Problems in Heights and Distances. [With View of Monument on Beacon Hill, Boston, and of House of Mr. Norcross, south of Charles River, and of the river at the Bath; also locating Church in Charlestown with State House in Boston.] [In colors.] — Amos Clarke [H. C. 1804]. Oct. 17, 1803.

112. Astronomical Calculations for the Meridian of Cambridge, Lat. 42° 23′ 28″ N.; Long. 71° 7′ W. — Jaazaniah Crosby [H. C. 1804]. April, 1804.

113. A Survey of Part of Cambridge situated easterly of the Mall. [Locates the County Gaol and the houses of many citizens, as Mrs. Dana, Mrs. Guild, Dr. Gamage, Judge Winthrop, &c.] Map, 7½ × 13 in. — Benjamin Merrill [H. C. 1804].

114. Front View of the Meeting House in Cambridge. [Gives all the external dimensions, with a View "taken from the eastern window in Major Brown's hall, on a scale of 20 feet to an inch."] — Benjamin R. Nichols [H. C. 1804].

115. Calculation of an Eclipse of the Moon which will happen in Jan. 1805. — Andrews Norton [H. C. 1804].

116. Solutions of Algebraic Problems. — Samuel Sewall, Jun. [H. C. 1804]. Oct. 18, 1803.

117. A Northwesterly View of Harvard [Hall], with Part of Massachusetts and Hollis, taken by the rules of Perspective. [In colors.] — William Simmons [H. C. 1804].

118. Fluxionary Solutions. April 24, 1804. — Joseph Emerson Smith [H. C. 1804].

119. Calculation and Projection of a Solar Eclipse which took Place in the Year of the Crucifixion. — Samuel C. Thacher [H. C. 1804].

120. Calculation and Projection of a Lunar Eclipse for the Meridian of Cambridge which will happen in Jan. 1805. — Abraham Bodwell [H. C. 1805]. Oct. 23, 1804.

121. Algebraical Solutions. — Amos Rugg [H. C. 1805].

122. *Quaestiones de Agris dimetiendis.* [In Latin.] — Tench Tilghman [H. C. 1805].

123. *Templi Episcopalis Delineatio Perspectiva.* [In colors]. — Alexander H. Everett [H. C. 1806].

124. Calculation and Projection of a Solar Eclipse for the meridian and latitude of Cambridge. — Ephraim Abbot [H. C. 1806].

125. Calculation and Projection of a Lunar Eclipse for the meridian of Harvard University, in Cambridge, which will happen in April, 1809. — Thomas Prince Beal [H. C. 1806]. Oct. 1805.

126. Perspective View of the Seat of the Hon. Francis Dana, Cambridge. [In colors.] — Jacob Bigelow [H. C. 1806].

127. Calculation and Projection of a Transit of Mercury over the Sun's Disc, Nov. 10, 1815. — Jonathan Cogswell [H. C. 1806].

128. Fluxionary Solutions of Problems. — Jonathan Cogswell [H. C. 1806]. Oct. 29, 1805.

129. Fluxions. — William Pitt Preble [H. C. 1806].

130. Spherical Astronomy. — William T. Torrey [H. C. 1806].

131. Algebraic Solutions of Problems. — Benj. Hatch Tower [H. C. 1806].

132. Calculation of a Lunar Eclipse. — John Gallison [H. C. 1807].

133. Fluxionary Problems. — Samuel J. Gardner [H. C. 1807]. Oct. 21, 1806.

134. Algebraic Solutions of Problems. — William Smith, Jun. [H. C. 1807]. Oct. 1806.

135. Algebraic Solutions. — Timothy Farnham [H. C. 1808].

136. Fluxional Solutions. — Nahum Houghton Groce [H. C. 1808]. Oct. 19, 1807.

137. Calculation and Projection of a Transit of Venus over the Sun's Disc, December, 1874. — Moses Holbrook [H. C. 1808]. April 26, 1808.

138. Fluxional Solutions. — Benjamin Rand [H. C. 1808]. Oct. 19, 1807.

139. Fluxional Problems. — Samuel Scollay [H. C. 1808]. April 26, 1808.

140. Algebraic Solutions. — Levi Whitman [H. C. 1808]. Oct. 19, 1807.

141. Fluxional Problems.—Samuel Bird [H. C. 1809]. Oct. 1808.

142. Fluxional Problems. — Francis C. Gray [H. C. 1809].

143. Calculation and Projection of a Solar Eclipse. — Timothy Hilliard [H. C. 1809].

144. Calculation and Projection of a Solar Eclipse. — Benjamin Perkins [H. C. 1809]. Oct. 18, 1808.

145. Mathematical Exercises. — Samuel Stevens [H. C. 1809]. April 25, 1809.

146. Calculation and Projection of a Lunar Eclipse. — William Swift [H. C. 1809]. Oct. 18, 1808.

147. Calculation and Projection of a Lunar Eclipse. — Nathaniel Whitman [H. C. 1809].

148. Mathematical Exercises.—Rufus B. Allyn [H. C. 1810]. May 24, 1810.

149. Mechanical Investigation of the Theory of the Lunar Origin of Meteoric Stones. — John D. Andrews [H. C. 1810]. Oct. 31, 1809.

150. Calculation and Projection of a Solar Eclipse, projected for the path of Greenwich, for Sept. 1820. — David Brigham [H. C. 1810]. April 23, 1810.

151. Solution of Problems in Mechanics. — John Cotton [H. C. 1810].

152. Mathematical Exercises. — Stephen Fales [H. C. 1810]. Oct. 31, 1809.

153. Fluxional Calculation of the Motion of the Lunar Nodes. — William G. Hunt [H. C. 1810]. April 24, 1810.

154. *Capitoli Massachusettensium Descriptio.* [View of the State House.] — Joseph G. Kendall [H. C. 1810].

155. Algebraic Solutions. — Rufus Kittredge [H. C. 1810]. August 28, 1810.

156. Calculation and Projection of a Solar Eclipse. — Cyrus Peirce [H. C. 1810]. August 28, 1810.

157. Fluctional Solutions. — Willard Phillips [H. C. 1810]. April 20, 1810.

158. Calculation and Projection of a Lunar Eclipse. — Amasa Thayer [H. C. 1810]. Oct. 31, 1809.

159. Calculation and Projection of a Solar Eclipse. — Jonas Wheeler [H. C. 1810].

160. Spherical Problems. — Joseph Allen [H. C. 1811].

161. Mathematical Exercises. — David Damon [H. C. 1811]. April 30, 1811.

162. A Solution of Problems in the Lunar Theory. — Edward Everett [H. C. 1811].

163. Calculation and Projection of a Lunar Eclipse. — John H. Farnham [H. C. 1811]. Oct. 23, 1810.

164. Plan of the Botanic Garden. Plan, 16 × 18 in. — Nathaniel L. Frothingham [H. C. 1811].

165. Comparative Velocities of bodies moving in different curves at the same distance from a Centre of Force. — Henry H. Fuller [H. C. 1811]. April 30, 1811.

166. Calculation and Projection of a Solar Eclipse, September, 1811. — Samuel Gilman [H. C. 1811]. April 30, 1811.

167. Fluxional Problems. [On parchment]. — John C. Gray [H. C. 1811].

168. Mechanical Problems. — Moses Hunt [H. C. 1811].

169. Calculation and Projection of a Solar Eclipse. — George Morey [H. C. 1811]. Oct. 23, 1810.

170. An Investigation of Problems in the Lunar Theory. — Adam Lewis Bingaman [H. C. 1812].

171. Astronomical Problems. — Henry P. Coburn [H. C. 1812]. April 28, 1812.

172. Elements of the Comet now visible determined by the Graphical Method. — Allston Gibbes [H. C. 1812]. Oct. 22, 1811.

173. Trigonometrical Projection. — Francis Edward Goddard [H. C. 1812].

174. Problems in Astronomy, Fluxions, &c. — Abraham Harrington [H. C. 1812].

175. Calculation and Projection of a Lunar Eclipse. — Charles G. Loring [H. C. 1812].

176. The longitude of Cambridge deduced from observations on the Solar Eclipse of September 17, 1811. [Determines time and longitude W. of Greenwich to be $4^h\ 44'\ 29''$, and adds the note "President Willard made the difference in time $4^h\ 44'\ 31''$, aud in degrees $71°\ 7'\ 45''$."] — Henry Ware, Jun. [H. C. 1812].

177. Calculation and Projection of Γ Tauri, in Lat. 57° 15″; Long. $4^h\ 44'\ 32''$. Nov. 18, 1812. — John James Appleton [H. C. 1813].

178. Calculation and Projection of a Solar Eclipse. — John Brazer [H. C. 1813]. Oct. 20, 1812.

179. Calculation of the Ratio and Magnitude of the Earth's Axes. — William G. Fuller [H. C. 1813].

180. Calculation and Projection of the latitudes and longitudes of the Comet of 1811, together with a delineation of its path. — Edward Hinkley [H. C. 1813].

181. Solutions of Miscellaneous Problems. — John Proctor [H. C. 1813].

182. Astronomical Problems. *Qui, cum tam certos coeli motus, tam ratos astrorum ordines, tamque omnia inter se connexa et apta viderit, neget in his ullam inepse rationem!* — Cicero. — John Richardson [H. C. 1813].

183. Perspective of the new Chapel to be erected parallel to Stoughton and Hollis [Halls]. — William Jones Spooner [H. C. 1813].

184. Geodesic Operations. [Determining the height and location of Blue Hill.] — Henry Warren [H. C. 1813].

185. A Solution of Problems in the Lunar Theory. — Andrew Bigelow [H. C. 1814]. April 26, 1814.

186. Calculation and Projection of a Transit of Mercury over the Sun's Disk, Nov. 11, 1815. — Gamaliel Bradford, Jun. [H. C. 1814].

187. Spheric Problems. — Samuel D. Bradford [H. C. 1814]. April 26, 1814.

188. Lunar Eclipse on Dec. 16, 1815, and Solar Eclipse on Sept. 7, 1820. — Benjamin A. Gould [H. C. 1814].

189. Calculation and Projection of a Transit of Mercury over the Sun's Disc, Nov. 11, 1815. — Alvan Lamson [H. C. 1814]. Oct. 19, 1813.

190. Geodesic Operations. [Determining the elevation of the White Hills, and the bearing of Boston Light from Harvard Hall.] — Francis D. Quash [H. C. 1814].

191. An Occultation. — James Walker [H. C. 1814]. Oct. 19, 1813.

192. Mathematical Problem. — John B. Davis [H. C. 1815].

193. Trigonometrical Calculations. [Locating Boston Light from Harvard Hall, &c.] — Robert P. Farriss [H. C. 1815]. April 25, 1815.

194. Spherical Problems. — Convers Francis [H. C. 1815].

195. Fluxional Problem. — Elisaeus Fuller [H. C. 1815]. April 25, 1815.

196. Lunar Eclipse. — Appleton Howe [H. C. 1815].

197. Fluxional Problems. — Levi W. Leonard [H. C. 1815].

198. Fluctional Solutions. — John A. Lowell [H. C. 1815]. Oct. 1814.

199. Investigation of the Properties of the Parabola. — George Otis [H. C. 1815].

200. Problems relating to the new Planets. — John G. Palfrey [H. C. 1815].

201. Perspective Representation of University Hall [with two views]. — Theophilus Parsons [H. C. 1815].

202. Orbit of a Comet. Elementary Calculation from physical principles, together with a Graphical Representation of the Orbit of the Comet of MDCCCXL. — Jared Sparks [H. C. 1815]. April 25, 1815.

203. A Perspective Representation of Craigie's House. [Washington's headquarters, now Longfellow's home. In colors.] — William A. Warner [H. C. 1815].

204. Problems in Spherical Astronomy. — Samuel Webber [H. C. 1815].

205. Measurement of Altitudes by the Barometer. — Justin Wright Clarke [H. C. 1816].

206. A Lunar Eclipse. — George Frederic Farley [H. C. 1816]. April 26, 1816.

207. Secular Equation of the Moon. — Samuel Phillips Newman [H. C. 1816]. May, 1816.

208. Transit of Mercury. — John W. Proctor [H. C. 1816]. Oct. 24, 1815.

209. Calculation and Projection of a Solar Eclipse. — Augustus Whiting [H. C. 1816]. April 30, 1816.

210. Trigonometrical Problems: Calculation of the heights and distances of the principal hills near the Colleges. — Azarias Wilson [H. C. 1816].

211. *Invenire Motum Verum Nodorum Lunae.* [In Latin.] — George Bancroft [H. C. 1817]. April 29, 1817.

212. *De Crepusculo agitur computare durationem crepusculi in diversis latitudinibus, et eadem latitudine, in diversis temporibus.* [In Latin.] — Apollos Drayton Bates [H. C. 1817]. April 29, 1817.

213. Spherical Problems. — Ira Blanchard [H. C. 1817].

214. Astronomical Problems. — David Lee Child [H. C. 1817].

215. *De Lucis Aberratione, a Bradleio, axis terrestris nutationis detectore felicissimo, reipublicae astronomicae primum An.* CIↃDCCXXVIII. *denudata, Demonstrationes Usitatissimae.* [In Latin.] — Caleb Cushing [H. C. 1817].

216. Fluxional Solutions of Problems in Harmonicks. — George B. Emerson [H. C. 1817].

217. Fluxional Solutions. — Robert Schuyler [H. C. 1817]. Oct. 22, 1816.

218. *De Aequinoctorum Praecessione.* [In Latin.] — Samuel E. Sewall [H. C. 1817].

219. On the Nutation of the Earth's Axis. — Francis W. Winthrop [H. C. 1817]. April 29, 1817.

220. Geodetical Operations. [Measuring heights of Blue Hill, Wellington's Hill, &c.] — Alva Woods [H. C. 1817]. 1816.

221. The Application of Algebra to Conick Sections. — George Chase [H. C. 1818].

222. Astronomical Problems, or a Comparative View of the Earth and Moon as seen by a Lunarian [with an Illustration]. — Philander Chase, Jun. [H. C. 1818].

223. Application of Algebra to Geometry. To find the magnitude and position of an image formed by refraction at a given lens. — Warren Goddard [H. C. 1818].

224. A View of the Seat of Theodore Lyman, Esqr., in Waltham, taken on the principles of perspective. [Two Views.] — Joshua H. Hayward [H. C. 1818].

225. A Perspective View of the principal Building of the Hospital for the Insane [Somerville] drawn from measurement on a scale of seventeen feet to an inch. [Two Views.] — John F. Jenkins [H. C. 1818].

226. Astronomical Problems. — George R. Noyes [H. C. 1818]. Oct. 28, 1817.

227. Calculation and Projection of a Solar Eclipse. [Showing path for both Cambridge and Greenwich.] — Sampson Reed [H. C. 1818].

228. Calculation and Projection of a Lunar Eclipse. — Charles Robinson [H. C. 1818].

229. Lunar Problem. — John Hubbard Wilkins [H. C. 1818].

230. Application of Algebra to Conic Sections. — Ephraim Buttrick [H. C. 1819].

231. Application of Algebra to the Solution of Geometrical Problems. — John Harleston Corbett [H. C. 1819].

232. Mensuration of Altitudes Barometrically. — Robert Cross [H. C. 1819].

233. A View of the Church in Summer Street. [Church Green, Boston.] — John L. Langdon Elwyn [H. C. 1819].

234. Architecture [a Problem]. — Walter R. Johnson [H. C. 1819].

235. Astronomical Problems. — Edward Ellenborough Law [H. C. 1819].

236. The elevation of Blue Hill above the level of Cambridge. — Charles Carter Lee [H. C. 1819].

237. To determine the area of the Visible Heavens. — John J. Lloyd [H. C. 1819].

238. View of the Seat of Ebenezer Crafts, Esquire, in Roxbury. — Solomon Pearson Miles [H. C. 1819].

239. Calculation and Projection of a Solar Eclipse. — Ephraim Sherman [H. C. 1819].

240. Analytic Geometry. — James G. Carter [H. C. 1820]. April 25, 1820.

241. Calculation of the Orbit of the Comet of 1819. — Warren Colburn [H. C. 1820]. April 25, 1820.

242. Problems in Spherical Astronomy. — Ezra Stiles Gannett [H. C. 1820]. Oct. 19, 1819.

243. The Stone Chapel in Boston. [King's Chapel, view of.] — Edward Brooks Hall [H. C. 1820]. Oct. 19, 1819.

244. Astronomical Problems. [Colored illustration.] — D. P. Hall [H. C. 1820]. April 25, 1820.

245. Spherical Problems. — Stephen Schuyler [H. C. 1820]. April 25, 1820.

246. Spherical Problems. — William R. Smith [H. C. 1820]. Oct. 10, 1819.

247. Perspective Representation of St. Paul's Church, Boston. [Two views, in colors.] — Alexander Young [H. C. 1820].

248. Problems in Astronomy. — Robert W. Barnwell [H. C. 1821]. April 24, 1821.

249. Investigation of some Properties of the Pendulum. — Allard Henry Belin [H. C. 1821].

250. Analytic Geometry Problem. — John Milton Cheney [H. C. 1821]. Oct. 24, 1820.

251. Perspective View of the Arsenal in Watertown. [In colors.] — Ralph Farnsworth [H. C. 1821].

252. Calculation and Projection of the latitude and longitude of the Comet of 1821. — Henry Lane [H. C. 1821]. April, 1821.

253. Perspective View of the House of David Sears, Esq., Boston. [In colors.] Frederick P. Leverett [H. C. 1821).

254. Nebulae and the Milky Way. — Charles W. Upham [H. C. 1821]. April 24, 1821.

255. Calculation and Projection of a Solar Eclipse, Aug. 27, 1821. — William Withington [H. C. 1821].

256. An Hypothetical Explanation of Halos and Parhelia. — Nathaniel Wood [H. C. 1821].

257. To Determine the Orbit of a Comet. — [Name lost. 1821?]

258. A Lunar Eclipse, August 2, 1822. Cambridge, Long. W. 71° 8′. — Josiah Bent [H. C. 1822]. Oct. 30, 1821.

259. Projection of the Solar Eclipse, Feb. 21, 1822. — Nathaniel I. Bowditch [H. C. 1822].

260. Calculation of the Solar Eclipse, Feb. 21, 1822. For Cambridge, in Lat. 42° 23′ 28″ N.; Long. 4^h 44′ 30″ W. — Nathaniel I. Bowditch [H. C. 1822].

261. Problems in Analytical Geometry. — Theodore Edson [H. C. 1822].

262. The Polarisation of Light. — John Frost [H. C. 1822].

263. Astronomical Exercise on the Aberration of Light. — Nathaniel Gage [H. C. 1822].

264. Perspective of the Episcopal Church, Cambridge, taken from the Northeastern part of the Burying Ground. [In colors.] — George A. Goddard [H. C. 1822]. Oct. 1821.

265. Theory of the Calculation of Altitudes by the Barometer. — Caleb Stetson [H. C. 1822]. April, 1822.

266. Precession of the Equinoxes. — Edward Wigglesworth [H. C. 1822].

267. Astronomical Calculations. — Samuel M. Worcester [H. C. 1822]. April 30, 1822.

268. Transit of Venus for 1874. — [No name. 1822?]

269. Problems in Conic Sections. — Asahel Bigelow [H. C. 1823].

270. Calculation and Projection of a Lunar Eclipse of 1825. — Thomas Wilson Dorr [H. C. 1823]. April 29, 1823.

271. Projection and Calculation of the Grand Solar Eclipse of February 12, 1831, for the latitude and meridian of Philadelphia. — Levi Fletcher [H. C. 1823]. Oct. 29, 1822.

272. Analytical Solutions. — James A. Kendall [H. C. 1823]. Oct. 29, 1822.

273. Lunar Eclipse. — William P. Lunt [H. C. 1823].

274. Astronomical Problems. — John Preston [H. C. 1823]. Oct. 1822.

275. On the Figure of the Earth. — George Ripley [H. C. 1823]. May, 1823.

276. Calculations of the Comet Corrected. — John Paul Robinson [H. C. 1823].

277. Calculation and Projection of a Lunar Eclipse, July 22, 1823.—Samuel Horace Stearns [H. C. 1823]. May, 1823.

278. Astronomical Problems. — Daniel Weld, Jun. [H. C. 1823].

279. Projection of the Solar Eclipse of Feb. 12, 1831, for the latitude and meridian of Boston, Lat. 42° 23′ N.; Long. 71° 04′ W. — Taylor Gilman Worcester [H. C. 1823]. April, 1823.

280. Problems in Nautical Astronomy. — John Wright [H. C. 1823]. April 29, 1823.

281. Calculation of the Eclipse [Feb. 12, 1831.] — [No name. 1823?]

282. Algebraical Problems. — David H. Barlow [H. C. 1824].

283. Calculation of a Fixed Star. — George W. Burnap [H. C. 1824].

284. Calculation and Projection of a Lunar Eclipse. — E. H. Derby [H. C. 1824].

285. Calculation and Projection of a Solar Eclipse in May, 1836. — Edward B. Emerson [H. C. 1824].

286. The Comet of 1823. — Benjamin F. Fisk [H. C. 1824]. April 27, 1824.

287. Problems Solved by the Differential Calculus. — Lucius V. Hubbard [H. C. 1824].

288. Problems Solved by the Differential Calculus. — Edmund L. LeBreton [H. C. 1824].

289. Projection of a Lunar Eclipse. — Artemas B. Muzzey [H. C. 1824]. Oct. 28, 1823.

290. Calculation and Projection of a Solar Eclipse in September, 1838. — William Newell [H. C. 1824].

291. Algebraical Problems. — David Roberts [H. C. 1824].

292. A Lunar Eclipse. — William G. Stearns [H. C. 1824].

293. A Perspective View of the Brick Church in Lancaster, Mass. [Two Views.] — Christopher T. Thayer [H. C. 1824].

294. A Lunar Eclipse. — George Whitney [H. C. 1824]. April 27, 1824.

295. A Perspective View of University Hall, in Cambridge, Mass.—William A. Whitwell [H. C. 1824]. Oct. 28, 1823.

296. Problems in Linear Perspective. — Seth Ames [H. C. 1825]. Oct. 1824.

297. Solar Eclipse in November, 1834. — Benjamin Brigham [H. C. 1825].

298. Projection of a Solar Eclipse. — Jonathan Chapman [H. C. 1825] April 26, 1825.

299. Theory of the Tides. — Jonathan Cole [H. C. 1825]. April, 1825.

300. Calculation and Projection of a Solar Eclipse for May 26, 1854. — Francis Cunningham [H. C. 1825].

301. Perspective Views of Public Buildings in Boston. [Mass. General Hospital and Mason Street Medical School?] — Francis O. Dorr [H. C. 1825].

302. Projection of a Solar Eclipse. [July, 1832.] — William Dwight [H. C. 1825].

303. Problems Solved by the Differential Calculus. — Augustus H. Fiske [H. C. 1825]. Oct. 1824.

304. A Drawing in Perspective of a School-house in Brookline. — Francis J. Higginson [H. C. 1825].

305. Calculation of the Elements and Projection of the Solar Eclipse of July 1860 for the latitude and longitude of Harvard Hall . . . according to the Tables and Method given in Gummere's Astronomy. — Charles Livermore [H. C. 1825]. Hollis Hall: April, 26, 1825.

306. Problems in Navigation. — William Prentiss [H. C. 1825]. April 1825.

307. Projection of a Solar Eclipse. [May, 1836.] — Allen Putnam [H. C. 1825].

308. Projection of a Solar Eclipse for September, 1838. — Thomas Sherwin [H. C. 1825].

309. Problems in Nautical Astronomy. — John Langdon Sibley [H. C. 1825].

310. Problems in the Doctrine of Shadows. — Paul Trapier [H. C. 1825]. April 25, 1825.

311. Computation of the Effect of Parallax on the Transit of Venus in 1874, for Lat. 23° 22′ 34″ N.; and Lon. 113° 16′ E. — John G. Treadwell [H. C. 1825].

312. Transit of Venus in 1882. — [Sears Cook Walker, H. C. 1825.]

313. The Effect of Parallax upon the Transit in 1882. — Sears C. Walker [H. C. 1825].

314. Astronomical Solutions. — Jason Whitman [H. C. 1825]. April, 1825.

315. The Aberration of Light. — Frederic Wilder [H. C. 1825].

316. Calculation and Projection of a Lunar Eclipse. [May, 1826.] — Julian Abbot [H. C. 1826].

317. Projection of a Solar Eclipse. [October, 1847.] — Alanson Brigham [H. C. 1826]. May, 1826.

318. The Ring of Saturn. — Hersey Bradford Goodwin [H. C. 1826]. Oct. 25, 1825.

319. Calculation and Projection of a Solar Eclipse for July 17, 1850. — Omen S. Keith [H. C. 1826].

320. A Lunar Eclipse. [November, 1826.] — Charles R. Kennedy [H. C. 1826].

321. Essay on the Principles of Perspective. — James R. Leib [H. C. 1826].

322. Astronomical Problems. — Cornelius McLean [H. C. 1826].

323. Dissertation on Volcanoes. — John H. W. Page [H. C. 1826].

324. Dissertation on Colours. — Cazneau Palfrey [H. C. 1826].

325. Problem in Nautical Astronomy. — John C. Phillips [H. C. 1826].

326. Projection of a Solar Eclipse. — George Putnam [H. C. 1826]. April 11, 1826.

327. Occultation of a Fixed Star. — Oliver Stearns [H. C. 1826].

328. Occultation of a Fixed Star. — Timothy Walker [H. C. 1826]. April, 1826.

329. A Lunar Appulse. — William H. Brooks [H. C. 1827].

330. On Musical Temperament. — Edmund L. Cushing [H. C. 1827]. May 1, 1827.

331. Aberration of Light: Method of deducing the formulas according to La Lande, and their application to the Right Ascension and Declination of Alpha Lyrae. — Epes Sargent Dixwell [H. C. 1827].

332. Occultation of a Fixed Star. — John H. Eaton [H. C. 1827].

333. Dissertation on Cotton Machinery. [Cotton Spinning]. — James Lloyd English [H. C. 1827].

334. Dissertation on Heat. — Edward W. Hook [H. C. 1827].

335. Aberration of Light: Formulas deduced as by La Lande, and applied for Arcturus, Jan 1, 1830. — Seth Sweetser [H. C. 1827].

336. Measurement of an Arc of the Meridian. — Arnold F. Welles [H. C. 1827].

337. On the Polarisation of Light. — Horatio D. Appleton [H. C. 1828]. April 29, 1828.

338. Dissertation on Comets. — Charles Babbidge [H. C. 1828]. Oct. 16, 1827.

339. Theory of the Earth. — Arthur-Howson-Hooe Bernard [H. C. 1828]. Oct. 16, 1827.

340. Projection and Calculation of the Elements of a Solar Eclipse for April 8, 1821. — George Chapman [H. C. 1828].

341. Astronomical Problems. — Charles Chauncy Emerson [H. C. 1828]. April, 1828.

342. On Nutation. — George S. Hillard [H. C. 1828].

343. On Meteoric Stones. — George Nichols [H. C. 1828]. Oct. 16, 1827.

344. An Investigation of the Properties of the Cycloid. — Edward S. Rand [H. C. 1828]. April 29, 1828.

345. Dissertation on the Steam Engine. — James C. Richmond [H. C. 1828]. Oct. 16, 1827.

346. The Phenomena of Eclipses and Occultations. — Samuel Rogers, Jun. [H. C. 1828]. April 29, 1828.

347. Astronomical Problems. — Jonathan Loring Woart [H. C. 1828]. April 29, 1828.

348. On the Ebbing and Flowing of the Sea. — William Brigham [H. C. 1829]. April, 1829.

349. Quadratic and Adfected Quadratic Equations. — Benjamin R. Curtis [H. C. 1829].

350. Dissertation on Volcanoes. — Samuel Adams Devens [H. C. 1829].

351. Solar and Lunar Eclipse. — Joel Giles [H. C. 1829].

352. Dissertation on Rail Roads. — William Gray [H. C. 1829]. Oct. 21, 1828.

353. Solutions of Questions . . . from the Mathematical Diary, &c. — Benjamin Peirce [H. C. 1829]. Oct. 21. 1828.

354. Of the Celestial Motions. — Charles S. Storrow [H. C. 1829]. April 28, 1829.

355. On the Aberration of the Fixed Stars. — John James Taylor [H. C. 1829]. April 28, 1829.

356. On Comets. — James Thurston [H. C. 1829]. April 28, 1829.

357. Aurora Borealis. — James H. Wilder [H. C. 1829]. Oct. 21, 1828.

358. The Solar Eclipse of Feb. 12, 1821. Projected for Nantucket. — Benjamin Halsey Andrews [H. C. 1830]. April, 1830.

359. *De Crepusculo.* — Charles D. Appleton [H. C. 1830]. Oct. 1829.

360. Algebraic and Trigonometrical Solutions. — James Benjamin [H. C. 1830]. Oct. 1829.

361. Algebraic Geometry. — Barzillai Frost [H. C. 1830]. Oct. 1829.

362. The Tautochronous Curve and the Cycloid. — Thomas Hopkinson [H. C. 1830]. May, 1830.

363. The Mirage. — Henry Lincoln [H. C. 1830]. May, 1830.

364. Figure of the Earth. — Jonathan F. Stearns [H. C. 1830]. May, 1830.

365. Problems in the Integral Calculus. — Charlemagne Tower [H. C. 1830].

366. ΤΟ ΘΕΩΡΗΜΑ ΠΥΘΑΓΟΡΙΚΟΝ. [Various demonstrations.] — William Austin [H. C. 1831].

367. Solution of Problems. — Nathaniel T. Bent [H. C. 1831]. Oct. 16, 1830.

368. Projection of the Occultation of Aldebaran, for Nov. 29, 1830. — Frederic W. Brune [H. C. 1831].

369. The Pendulum. — Charles Eames [H. C. 1831]. May 3, 1831.

370. Solutions. Twenty Questions of the Mathematical Diary, &c. — Frederick Furber [H. C. 1831]. — Oct. 19, 1830.

371. Demonstrations of Trigonometrical Formulas used in Astronomical Calculations. — John Giles [H. C. 1831].

372. Conic Sections. — Charles G. C. Hale [H. C. 1831].

373. Motion of Projectiles. — John George McKean [H. C. 1831].

374. Logarithms. — John H. Morison [H. C. 1831].

375. Some beautiful results to which we are led by the Differential Calculus in the development of Functions. — Wendell Phillips [H. C. 1831]. May 3, 1831.

376. The Evolute. — William H. Simmons [H. C. 1831]. May, 1831.

377. The [Principle of] Compensation. — Charles T. Brooks [H. C. 1832]. May 1, 1832.

378. Magnetic Curve. — William Cushing [H. C. 1832].

379. Refraction. — James Augustus Dorr [H. C. 1832]. Nov. 15, 1831.

380. Arch of Equilibration. — Samuel Osgood [H. C. 1832]. Oct. 1831.

381. *De Maculis Solaribus.* — William Richardson [H. C. 1832].

382. Animal Mechanicks. — George F. Simmons [H. C. 1832]. Oct. 18, 1831.

383. Probability. — Joseph Stevens Buckminster Thacher [H. C. 1832].

384. Nature and Roots of Affected Quadratic Equations. — Theodore Warland [H. C. 1832]. May 1, 1832.

385. Meteorites. — William W. Wellington [H. C. 1832]. May, 1832.

386. The Steam Engine. — James Wilde [H. C. 1832]. April 28, 1832.

387. Projection and Calculation of a Lunar Eclipse. — Francis Bowen [H. C. 1833]. May, 1833.

388. Solution of Problems. — Fisher Ames Harding [H. C. 1833].

389. Mathematical Exercise. — Moses Kelly [H. C. 1833]. April 30, 1833.

390. The Cissoid [of Diocles]. — Abiel Abbot Livermore [H. C. 1833]. Oct. 16, 1832.

391. The Application of the Principle of Fluxions to the Solution of Different Problems. — Joseph Lovering [H. C. 1833]. Nov. 12, 1832.

392. An Eclipse of the Sun Calculated for the latitude and longitude of Harvard Hall. — William M. Prichard [H. C. 1833]. April 30, 1833.

393. Original Solutions of Indeterminate Problems of the First Degree. — Henry W. Torrey [H. C. 1833]. Oct. 16, 1832.

394. Trochoidal Curves. — William Whiting [H. C. 1833]. Oct. 16, 1832.

395. Earthquakes. — Frederic A. Whitney [H. C. 1833]. Oct. 16, 1832.

396. Aberration. — Henry Burroughs, Jr. [H. C. 1834]. Oct. 15, 1833.

397. Projection and Calculation of a Lunar Eclipse. — Samuel M. Felton [H. C. 1834].

398. Algebra applied to Geometry. — Charles Knower [Class of 1834]. April 29, 1834.

399. Surveying. — Joseph Hartwell Williams [H. C. 1834]. April 29, 1834.

400. Mathematical Geography. — Francis Alfred Fabens [H. C. 1835]. Oct. 21, 1834.

401. Latitudes and longitudes. — Charles Chauncy Shackford [H. C. 1835]. April 28, 1835.

402. Hydrostatics. — William H. Shackford [H. C. 1835]. Oct. 21, 1834.

403. Solution of Problems. — Naaman L. White [H. C. 1835]. April, 1835.

404. The Doctrine of Chances. — Robert Bartlett [H. C. 1836]. Oct. 20, 1835.

405. The Catenarian Curve. — Samuel Treat [H. C. 1837]. Nov. 15, 1836.

406. A Projection of the Solar Eclipse of Sept. 18, 1838, for the meridian of Cambridge. — Bela Farwell Jacobs [H. C. 1839]. May 7, 1839.

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